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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Rosencrance et al.

Art Unit: 1731

Serial No.: 10/706,450

Filed: November 12, 2003

For: Deinking Blends For Use In Reduced Alkali Systems

Docket No.: 09328.105084 US KMRA

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Information Disclosure Statement

Sir:

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Respectfully submitted,

Clark G. Sullivan
Reg. No. 36,942

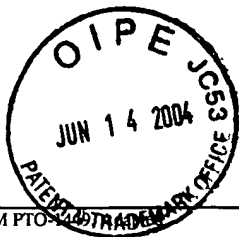
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CERTIFICATE OF MAILING

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Alicia J. Skillman

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FORM PTO-449

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ATTY. DOCKET NO.	SERIAL NO.	FILING DATE
09328.105084 KMRA 37	10/706,450	November 12, 2003
APPLICANT	GROUP	
Rosencrance et al.	1731	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF PPROPRIATE
	AA	6,540,870	04/01/03	Laurila-Lumme et al.			
	AB	6,376,455	11/22/00	Friedli et al.			
	AC	6,312,559	11/06/01	Irinatsu et al.			
	AD	6,210,526	08/24/99	Pohlen			
	AE	5,968,313	05/07/97	Bentley			
	AF	5882476	05/05/95	Evans et al.			
	AG	5,817,212	10/06/98	Jobbins et al.			
	AH	5,837,099	01/28/97	Borchardt			
	AI	5,811,381	10/10/96	Emalfarb et al.			
	AJ	5,807,464	02/03/97	Jobbins et al.			
	AK	5,801,135	09/01/98	Miyauchi et al.			
	AL	5,801,134	10/12/95	Miyauchi et al.			
	AM	5,725,730	03/10/98	Smolka et al.			
	AN	5,712,233	01/22/96	Rasheed			
	AO	5,696,292	12/09/97	Cody et al.			

EXAMINER	DATE CONSIDERED
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5667927	02/23/96	Kubota et al.			
	BB	5,651,861	07/29/97	Larson et al.			
	BC	5,637,191	06/10/97	Langley et al.			
	BD	5,622,597	04/22/97	Callen et al.			
	BE	5,601,689	02/11/97	Sacripante et al.			
	BF	5,540,814	07/30/96	Curtis et al.			
	BG	5,527,426	05/05/94	Marwah et al.			
	BH	5,512,134	07/29/94	Daute et al.			
	BI	5,505,817	10/19/93	Rodriguez et al.			
	BJ	5,442,082	12/16/94	Uphues et al.			
	BK	5,429,716	06/28/93	Hache et al.			
	BL	5,417,808	08/23/95	Okamoto et al.			
	BM	5,415,733	05/16/95	Robinson et al.			
	BN	5,401,360	09/09/92	Galland			
	BO	5,384,010	08/27/93	Hou et al.			

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	CA	5,362,363	04/20/92	Smolka et al.			
	CB	5,346,543	09/13/94	Hirakouchi et al.			
	CC	5,342,483	12/10/92	Hwang			
	CD	5,332,474	01/19/93	Maxham			
	CE	5,308,448	02/08/93	Behler et al.			
	CF	5,259,969	09/16/91	Srivatsa et al.			
	CG	5,288,369	11/22/91	Ishibashi			
	CH	5,286,346	02/15/94	Engelskirchen et al.			
	CI	5,282,928	05/29/92	Takahashi			
	CJ	5,258,099	07/17/92	Borchardt			
	CK	5,234,545	04/24/92	Fabry et al			
	CL	5,228,953	10/30/91	Bast et al			
	CM	5,227,019	07/13/91	Borchardt			
	CN	5,225,046	07/06/93	Borchardt			
	CO	5,221,433	01/13/92	Daute et al.			

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	DA	5,102,500	04/07/92	Darlington			
	DB	4,971,656	03/31/89	Lehmann et al.			
	DC	4,959,123	02/02/80	Lehmann et al.			
	DD	4,820,379	04/11/89	Darlington			
	DE	4780179	01/27/86	Clement			
	DF	4,561,933	04/15/85	Wood et al.			
	DG	4,483,742	02/25/83	Bridle			
	DH	4,013,505	05/30/75	Balcar et al.			
	DI	587,099	07/27/1897	Levi			
	DJ	RE 36,424	12/07/99	Clement			
	DK	2003/0157595	06/03/99	Emalfarb et al			
	DL	2003/0125534	07/03/03	Callen et al.			
	DM	2003/0106654	06/12/03	Li et al.			
	DN	2002/0157798	01/16/02	Franks et al.			
	DO	2002/0066880	08/07/01	Robinson et al.			
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	EA	20020025295	06/13/01	Kim			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
						YES	NO.
	EB	98/45530	10/15/98	WO	Larson		
	EC	97/48850	06/17/97	WO	Robinson et al.		
	ED	97/46754	12/11/97	WO	Irinatsu et al.		
	EF	97/46753	12/11/97	WO	Irinatsu et al.		
	EG	97/32076	09/04/97	WO	Wallberg et al.		
	EH	97/22750	12/13/96	WO	Borchardt		
	EI	97/14844	04/24/97	WO	Rasheed		
	EJ	97/22751	06/26/97	WO	Larson et al.		
	EK	96/11262	04/18/96	WO	Schüle in et al.		
	EL	96/31646	10/10/96	WO	KAO Corporation		
	EM	96/13574	10/23/95	WO	Dunlop et al.		
	EN	95/27779	04/11/95	WO	Dunlop et al.		
	EO	95/26398	03/27/95	WO	Olsen et al.		
	EP	95/15296	11/29/94	WO	Werres		X
	EQ	95/12026	05/04/95	WO	Stockwell et al.		
	ER	95/09909	10/04/94	WO	Olsen et al.		

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						YES	NO.
	FA	95/00699	06/06/94	WO	Wallberg et al.		
	FB	93/22491	04/23/92	WO	Cook et al.		
	FC	91/03599	08/30/90	WO	PÄÄRT et al.		
	FD	90/05805	05/31/90	WO	Fischer et al.		X
	FE	0834614	04/08/98	EP	Irinatsu		
	FF	0726246	08/14/96	EP	Cody et al.		
	FG	0741203	04/26/96	EP	Evans et al.		
	FH	0717144	06/19/96	EP	Jobbins et al.		
	FI	0657578	12/06/94	EP	Schmid et al.		X
	FJ	0507325	10/07/92	EP	Hamaguchi		
	FK	0492507	07/01/92	EP	Ishibashi		
	FL	0307024	03/15/89	EP	Jansen		
	FM	0013027	12/24/79	EP	Hornfeck et al.		X
	FN	0013758	12/24/79	EP	Hornfeck et al.		X
	FO	2003012909	06/14/01	JP	Tetsuya et al.		
	FP	2003073987	09/03/01	JP	Mikiaki et al.		
	FQ	1140781	05/25/99	JP	Kao Corp.		
	FR	10219574	08/18/98	JP	Irinatsu		
	FS	10102390	04/21/98	JP	Irinatsu		
	FT	10088489	04/07/98	JP	Irinatsu		

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						YES	NO.
	GA	10053988	02/24/98	JP	Irinatsu		
	GB	07145582	11/22/93	JP	Tokiya et al.		
	GC	07189154	12/24/93	JP	Tokiya et al.		
	GD	06228894	01/29/93	JP	Tadashi et al.		
	GE	06192986	07/12/94	JP	Lion Corp		
	GF	59150191	08/28/84	JP	Raion KK		
	GH	05025789	07/16/91	JP	Takanobu et al.		
	GI	04202879	07/23/92	JP	Nippon Kami Pulp Dendyusho K.K.		
	GK	03193987	08/23/91	JP	Hideaki et al.		
	GL	02160984	12/09/88	JP	Bare et al.		
	GM	01006190	01/10/89	JP	Fujisawa Pharmaceutical Co		
	GN	19508936	09/19/96	DE	Oppenlaender et al.		
	GO	4007598	09/12/91	DE	Bohlander et al.		
	GP	4007597	09/12/91	DE	Bohlander et al.		
	GQ	4007596	09/12/91	DE	Bohlander et al.		
	GR	2856845	07/17/80	DE	Hornfleck et al.		
	GS	59150191	08/28/84	JP	Raion KK		
	GT	2001288395	10/16/01	JP	Sakura Color Products Corp.		
	GU	2001355189	11/26/01	JP	Nikka Chemical Industry Co. Ltd.		
	GV	10338828	12/22/98	JP	Shachihata Ind. Co. Ltd.		

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		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
						YES	NO.
	HA	06049791	02/22/94	JP	Yoichi		
	HB	08120582	05/14/96	JP	Yoshitaka		
	HC	10101982	04/21/98	JP	Hiroyuki		
	HD	11100784	04/13/99	JP	Irinatsu		
	HE	2001279588	10/10/01	JP	Akinobu		
	HF	2002173884	06/21/02	JP	Akinobu		
	HI	58149394	09/05/83	JP	Kao Corp.		
	HJ	11001883	01/06/99	JP	Takashi		
	HK	2001011786	01/16/01	JP	Kao Corp.		
	HL	205602	05/29/81	CS	Kostka		
	HM	2087745	02/04/72	FR	Hausner		
	HN	278679	12/10/97	SK	Vlasta		
	HO	1088952	07/06/94	CN	Yicai		
	HP	0926129	05/07/89	SU	Elena et al.		
	HQ	266815	01/12/90	CS	Tomas		
	HR	10102391	04/21/98	JP	Irinatsu		
	HS	19631150	02/05/98	DE	Schiessling et al.		
	HT						
	HU						
	HV						

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OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
IA	PARK, K, PARK, J, and LEE JH, "Modification of cellulose with polyalkylene oxide allyl ester-maleic acid anhydride copolymer and its application to the pulp and paper industry," J. Appl. Polym. Sci., vol. 84, no.5, 2 May 2002, pp. 894-899.		
IB	Wu, Guohua, DENG, Yulin, ZHU, Junyong, "Collector chemistry in flotation deinking of photocopy papers," Progress in Paper Recycling (1998) 7(4), 20-27, Institute of Paper Science and Technology, Atlanta, GA, ISSN: 1061-1452.		
IC	DENG, Y., "Flotation Deinking Chemistry: Current Research Program at IPST," IPST, Technical Paper Series, 699, (Atlanta, GA), p. 11.		
ID	LARSON, E., "Effects of polymeric additives in flotation of water based pigments during recycling of newsprints", 1997 Recycling symposium, Chicago, IL, USA, Apr. 14-16, 1997, pp. 167-173, Atlanta, GA, USA: TAPPI Press, 1997.		
IE	SANTOS, A., CARRE, B., and RORING, A., "Contribution to a Better understanding of the Basic Mechanisms Involved in the Pulping and Flotation of Offset Ink Particles", 1996 Recycling Symposium, New Orleans, LA, USA, Mar. 5 - 7, 1996, TAPPI Press, pp. 339-348.		
IF	XIA, Z., BEAUDRY, A., and BOURBONNAIS R., "Effects of Cellulases on the Surfactant-Assisted Acidic Deinking of ONP and OMG", Prog. Pap. Recycling, Vol. 5., no. 4, pp. 46-58.		
IG	TURRADO, S.J., GONZALEZ, R.L., RAMIREZ, P.R., Influence of Surfactants in Deinking, Invest. Tec. Pap., vol. 32, no. 123, Jan. 1995, pp 103-123, ISSN: 0368-0789.		
IH	EPPLE, M., BERG, J.C., The Effect of Adsorbed Surfactants on the Electrostatic Properties and Wettability of a Photocopy Toner, Prog. Rap. Recycling, vol. 3, no. 2, Feb. 1994, pp. 52-59, ISSN: 1061-1452.		
IJ	SCHMITT, G.D., DOSHI, M.R., "1991 Recycling Patents Review", Prog. Pap. Recycling, vol.1, no. 3, May 1992, pp. 74-77.		
IK	SUESS, H.U. SCHUMACHER, W., NIMMERFROH, N. HOPF, B., REINOLD, A., "Two-Stage Alkaline-Acidic Flotation for Eliminating Difficultly Removable Printing Inks from Waste Paper", Papier, March 1991, Vol. 45, no. 3, pp. 89-96.		
IL	PUTZ, H.J. SCHAFFRATH, H.J., GOTTSCHING, L., "Deinking of Oil- and Water-born Printing Inks - A New Flotation Deinking Model", Paper presented at 1st Research Forum on Recycling held 29-31 Oct. 1991 at Toronto, Canada, pp 183-190 [Montreal, CA: Canadian Pulp and Paper Association, 1991, pp. 223.		
IM	HORNFECK, K., LIPHARD, M. SCHRECK, B., "Investigations of interfaces and technological tests about flotation of printing inks and fillers", Wochenblatt fuer Papierfabrikation (1990), 118(21), 935-41, ISSN: 0043-7131.		
IN	BALOS, B., PATTERSON, J., "Flotation Deinking Chemistry", PaperAge, (1990) no. 1990 Recycling Annual, pp. 15-17.		
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